VYASELEVA. S.V.

Effect of various penicillin preparations on Treponema pallidum. Report No.1: Effect of penicillin on cultured Treponema pallidum. Zhur.mikrobiol.epid. i inmun. 28 no.4:106-109 Ap '57. (MLRA 10:10)

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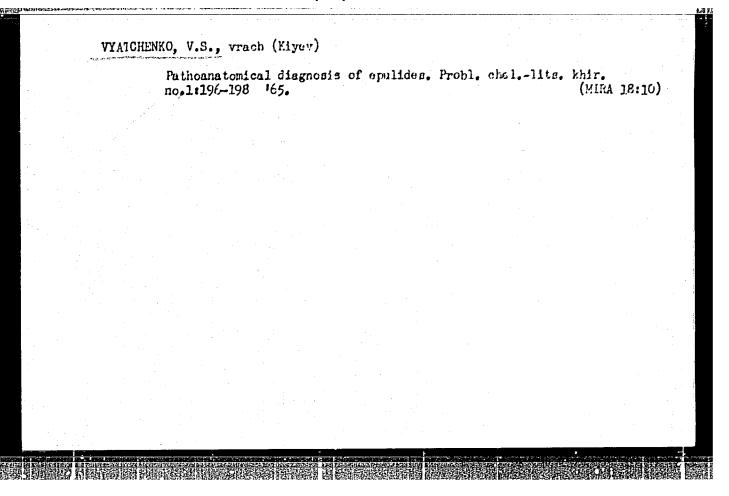
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AUTHORS:

Verkhovod, B. N., Kozhbanova, M. O., Dedeshko, M. P.,

Vyatchennikova, N. V.

TITLE:

Spectrochemical determination of certain rare earths using

the A&C-3 (DFS-3) spectrograph

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 1, 1962, 143, abstract 1D67 (Tr. In-ta geol. nauk KazSSR, v. 4, 1961, 136-138)

TEXT: Rare earth elements (REE) are separated by chemical methods from the corresponding minerals, solutions of which are so treated as to produce the REE in the form of oxalates (the chemical treatment technique is not described). The REE mixture is first diluted in 10-50 times the amount of carbon powder, and then in twice the amount of a powder containing 0.2% Sc as an internal standard. Standards are made from REE oxides on a CaCO3 The powders are placed in a hole 4 mm in diameter and 4 mm deep in the lower carbon electrode (the wall thickness remaining is 0.5 mm); the

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S/081/62/000/001/015/067 B156/B101

Spectrochemical determination of ...

upper electrode is conical in shape. The spectra are excited in an a.c. are discharge at 10-12 a. The analysis gap is 3 mm and the exposure time 5 min. The spectra are photographed using a DFS-3 diffraction spectrograph in the 3000-3500 Å region (it has a 0.02 mm slot). The following elements are determined at concentrations between 0.003 and 3.0%: Y, La, Ce, Nd, Sm, Gd, Tb, Dy, Ho, Er, Yb, Lu. Possible superpositions of lines are indicated: [Abstracter's note: Complete translation.]

Card 2/2

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RUSAKOV, G.K., nauchnyy sotrudnik; MILYAVSKIY, I.O., nauchnyy sotrudnik; ARINA, A.Ye., nauchnyy sotrudnik; PAHKOVA, K.I., nauchnyy sotrudnik; KHABAROV, N.F., nauchnyy sotrudnik. Prinimali uchastiye: PAYLOVA, N.G.; VYATCHININA, V.G.; VARFOLOMEYEVA, M.M. TIKHONOVA, Ye.M., red.; GUREVICH, N.M., tekhn.red.; DEYEVA, V.M., tekhn.red.

[Economic accountability on collective farms; regulations and methods of introduction] Vnutrikhozisistvennyi raschet v kolkhozakh; primernoe polozhenie i metodika vnedreniia. Moskva, Gos.izd-vosel'khoz.lit-ry, 1960. 71 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystwa. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystwa (for Rusakov, Milyavskiy, Arina, Pankova, Khabarov).

(Collective farms--Accounting)

VYATER, Ya.

Reconstructing the firebox of a steam engine. Muk.elev.-prom. 23 (MLRA 10:5) no.1:30 Ja '57.

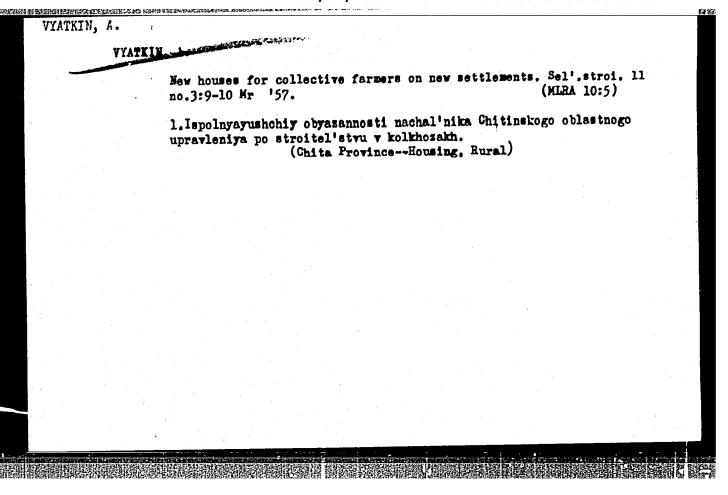
l.Kryzhopol'skiy elevator Vinitskaya oblast'.
(Portable engines)

BOYAROV, A.I.; VYATICH, L.A.; KLEYMENOV, Yu.V.; OVCHARENKO, G.I.

New recording profilometer. Stan.1 instr. 32 no.2:16-19 F '61.

(Surfaces (Technology)—Measurement)

(Surfaces (Technology)—Measurement)



VYATKIU, A.

36217

Isool'zovaniye stankov ATS - 5M. Tekstil. prom-st', 1949, No. 11, s. 38-39

S0: Letools' Zhurnal'nykh Statey, No. 49, 1949

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961320011-7

Standardization and unification are the important conditions for the sconomy of communal labor. Sots. trud 8 no.9:12-19 5 (63. (MIRA 16:10)

VYATKIN, A.I. Information. Tekst. prom. 24 no.11:80-83 N '64. (MEA 17:2) 1. Direktor Ivanovskogo melanzhevogo kombinata imeni Frelega.

VYATKIN, A. I.

Textile Machinery

Utilizing new automatic equipment. Tekst. prom. 12 No. 6 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCIASSIFIED.

VYATKIN, A-1.

IVANOVA, M.N.; VLASOV, P.V., CHERNYSHEV, P.F.; VYATKIN, A.I., retsenenet; KUPRIYANOVA, F.S., redaktor; GUSEVA, Ye.M., Fedaktor; NEKRASOVA, O.I., tekhnicheskiy redaktor

[Work organization for assistant foremen servicing automatic cotton looms (AT-100, ATS-5 and N)] Organizatsiia truda pomoshshchnikov mastera, obsluzhivaniushchikh avtomaticheskie tkatskie stanki v khlopchatobumazhnoi promyshlennosti (AT-100, ATS-5 i H) Pod red. F.S. Kupriianova. Hoskva, Gos. nauchno-tekhn. izd-vo Hinisterstva promyshl. tovarov shirokogo potrebleniia SSSR, 1954. 166 p. (MLRA 8:4)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961320011-7

Measuring true heat capacity of glasses, of silver iodide, and of AgI-KI sutectic melt in the temperature range of 50-3000. A. M. Benderovich and A. H. Wyatkin. Trudy Clark Fiz Tekha and Tunska Int. 1969, No. 32, 203-9, Referat, Zhur., Fine officials a tempal analysis is usua y made by taking the heating and low high varies, the form of which tepends to a great Degree on the test hat the trace. A therman and 7818 for a very made by meaning the temp. relation of its heat case the Heat case of was measured in a orase calorized. contg. a powd. sample, a constantan region, and a thermocourte. The calonimeter was placed in a thermostat, the temp. of which was kept const. within 10, temm. fluctuations in the sample being not more than 0.20. Heat capacity of the empty calorimeter was detd. by measuring the heat capacity of the calorimeter filled with powd. B -quartz, heat capacity of which was known. Reat capacity from 80° to 240° was measured for 3 samples of K silicate glass with compn. of 1 0 20, SiC2 80 mol. (heated 205 and 963 hrs. at 6200), and for a sample of Na silicate glass with compn. of Na 20 23, SiO₂ 77 mol.\$. The error of measurement did not exceed 12\$. In the change of heat cavacity no anomalies were observed in any sample; this indicates the absence of noticeable auts. of SiO2, since phase conversions in free SiO2 would cause anomalous absorption of heat. The sensitivity of the method was insufficient for a conclusion concerning presence of SiO in the sample of soda glass. When heat capacity of powd.

AgI was measured at 145.00, a sharp heat-capacity max. was observed, corresponding to a polymorphous & -d conversion. Heat capacity of a AgI-KI sutactic melt was measured close to 145.00. The absence of an anomalous absorption of heat is considered proof of the existence of the chem. compd. (AgI)2KI in the system. Marjorie Ketner

SOV/137-57-10-18626

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 23 (USSR)

AUTHORS: Presnov, V.A., Vyatkin, A.P.

TITLE: The Electrical Conductivity of Magnesite Refractories at Ele-

vated Temperatures (Elektroprovodnost' magnezitovykh ogneu-

porov pri vysokikh temperaturakh)

PERIODICAL: Tr. Sibirsk. fiz. tekhn. in-ta pri Tomskom un-te, 1956, Nr

35, pp 268-273

ABSTRACT: An investigation is made of the conductivity versus temperature relationships in the 100-900°C range of periclase high

refractories of three types, namely, simple magnesite, magnesite with additions, and fused magnesite. The materials investigated have greater resistivity than P at temperatures of under 1000°. Refractories of burnt magnesite demonstrate a semiconductor type of conductivity, while fused magnesite is dielectric. The samples were metallized by soldering to metal.

A.S.

Card 1/1

VyATKIN, A P.

AUTHOR

VYATKIN, A.P., EYCHIN, V.A.

57-6-8/36 1

TITLE

On the Origin of the Euctuation of Grystal Triode Parameters. H. n-p-n Triodes. (K voprosu o prichinakh, vyzyvayushchikn raziros parametrov kristalli-cheskikh triodov. II. Triody n-p-n-tipa. Russian)

PER IODICAL

ABSTRACT

Zhurnal Tekhn. Fiz. 1957, Vol 27, Nr 6, pp 1205 - 1208 (U.S.S.R.) In the present case investigations are carried out which are sint

In the present case investigations are carried out which are similar to these described in Part I (Zhurnal Tekhn.Fiz. 1957, Vol 27, Nr 6, pp 1197) for the triodes of the n-p-n-type. At first donator alloys were selected, for which purpose investigations were carried out with Bi-Po, Bi+Sn, As-Po, Sb-Sn, Sb-Po. It was found that, with respect to the rectifier coefficient, lead-antimony-, and lead arsenic alloys are the best. Further experiments were carried out with a Pb-Sb alloy with eutectic composition (11,2 % Sb). There follows a description of experimental data. It is shown that it is best to produce triodes of the n-p-n type at 700 °C. At this temperature a considerable dependence of the penetration depth on temperature is observed. Therefore even slight changes of temperature may lead to the fluctuation of some parameters of the triodes. Fluctuation may be to the extent of + 20 % A general diagram for the determination of the average values of the penetration depth of the Pb-Sb alloy into the germanium is given. The totaliy of the results mentioned her makes it possible quantitatively to characterize a number of factors which exercise influence on some of the crystal-

Card 1/2

57-6-8/36

On the Origin of the Fluctuation of Crystal Triode Parameters. II. n-p-n Triodes. triode parameters, and also makes it possible in advance to calculate the manner of producing the triodes of the n-p-n type. (With 5 illustrations and 3 Slavic references).

ASSOCIATION PRESENTED BY

SFTI, Tomsk

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26.1.1957

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CIA-RDP86-00513R001961320011-7 "APPROVED FOR RELEASE: 09/01/2001

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AUTHOR TITLE

VYATKIN, A.P.

57-6-7/36

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On the Origin of the Fluctuation of Crystal Midde Invanctors. I. p-n-p Triodes. (K voprosu o prichinakh, vyz; vayushchikh rasbros jarajetawy kri-

stallicheskikh triodov. I.Triody p-n-p tipa -Russian)

PERIODICAL

Zhurnal Tekhn.Fiz., 1957, Vol 27, Nr 6, pp 1197-1204(U.S.S.R.)

ABSTRACT

A number of factors, which are connected with the process of the formation of electron-hole transitions in plane crystal triodes and diodes, were investigated. First the moistening of Germanium by means of Indium is dealt with. Plane parallel p-n transitions are demanded for increasing the operation frequency. The author shows that for their formation the smelting of Indium in Germanium has to be carried out at temperatures above 4000C, most effectively at 550°C. There are, however, a number of difficulties connected with this temperature. The process of moistening is more complicated than in the case of moistening a solid substance with a liquid, because here germanium dissolves in indium. The form and the composition and the surface energies change continuously with rising temperature. The investigation was carried out on n-germanium sheets according to the method of frozen drops. The investigation of the depth of penetration of Indium into Germanium is dealt with in the second part. The dependence of this depth on the temperature, on the time of fusion as well as on the relative indium weight (p/S, where P is the weight of the Indium to be fuded and S the surface of fusion) is investigated. The results

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On the Origin of the Fluctuation of Crystal Triode Para- 57-6-7/36 meters. I. p-n-p Triodes.

of the investigations shown in diagrams show a satisfactory coincidence with the data of calculation. A nomograph is given by means of which the depth of penetration can be changed by varying the temperature and the balanced-up quantity of Indium. The change of temperature, time and relative weight are shown to be the reasons of the fluctuation of parameters. The author offers the possibility of estimating the influence of these factors and to calculate in advance the manner of producing of the triodes. In condusion data on the form of the p-n transitions are given.

(14 illustrations and 4 Slavic references).

ASSOCIATION PRESENTED BY

IATION SPTI, Tomsk

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26.1.1957 Library of Congress.

Card 2/2

NYATKIN, A.P.

AUTHOR:

Vyatkin, A.P. (Engineer)

90-3-2/26

TITLE:

On the use of hydraulic couplings as regulating devices.

(Ob ispol'zovanii gidromuft v kachestve reguliruyushchikh organov.

PERIODICAL:

Teploenergetika, 1958,

. No.3. pp. 10 - 11 (USSR)

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ABSTRACT:

One of the main reasons for the excessive power consumption of draught fan drives is the low efficiency of methods of regulating their outputs. Usually it is more economical to use hydraulic couplings rather than guide vanes over the entire load range of the main set. The relatively high inertia of hydraulic couplings makes it difficult to use them in automatically dontrolled systems. Different methods of connecting hydraulic couplings are illustrated in Figs.1, 2 & 3, which also give experimental curves of transient processes. In order to investigate the properties of a hydraulic coupling as a dynamic link in an automatically controlled system an expression is formulated for the torque on the coupling. The coupling is supposed to be connected as shown in Fig.4. and a mumber of simplifying assumptions are described. The transient function of the hydraulic coupling considered as a dynamic link, the output co-ordinate of which is the level of the working fluid in the working zone, and the input co-ordinate of which is the resistance factor of the overflow pipe, is then obtained. An expression is then derived for a particular case of system disturbance. The analysis shows than in order to reduce the transient time constant it is necessary to reduce the

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On the use of hydraulic couplings as regulating devices.

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cross-section of the head tank, to reduce the resistance of the connecting pipes and to take various other precautions. The correctness of the conclusions is confirmed by practice. The worst transient conditions are obtained with the circuit of Fig.l and the best with that of Fig.3. Thus, if a suitable method is used to connect the hydraulic coupling its inertia may be reduced to a minimum and it can be used as a control device in automatically controlled systems. There are 4 figures, 4 literature references (Russian).

ASSOCIATION: The Heat & Electric Power Station of the Moscow Power Institute.

(TETS MEI)

AVAILABLE: Library of Congress.

Card 2/2

30V/139-58-5-12/35

AUTHORS: Vyatkin, A. P. and Selivanov, B. A.

TITLE: Preparation of Plane Alloyed Contacts with Germanium (Polucheniye ploskikh splavnykh kontaktov s germaniyem)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, fizika, 1958, Nr 5, pp 60-64 (USSR)

ABSTRACT: Properties of semiconducting devices depend on the geometry of the p-n junction. The properties of the junction itself are determined by the degree of wetting of germanium by the metal used and the mutual solubility of the two. The present paper deals with the causes of formation and ways of elimination of undissolved patches in junctions of germanium with indium. Such patches depend on the method of preparation of indium and germanium, on the crystal orientation of the germanium surface and on the heat treatment applied in alloying. Good wetting depends not only on the purity of the germanium surface but also on the purity of indium. The authors etched indium before alloying and they found that a picric acid etchant was most effective. After etching with picric acid the indium surface becomes mirror-clean and the structure of indium can be clearly seen (Fig.la - indium before etching, Fig.lb - after etching). M. P. Yakuben' found that the

SOV/139-58-5-12/35

Preparation of Plane Alloyed Contacts with Germanium

crystalline grains of indium. The authors studied the process of wetting of germanium by etched and unetched indium, using germanium surfaces of various crientations, such as (111), (110), (100). Various methods of alloying were also tried. Alloying was carried out with the apparatus described in Ref.4, which makes it possible to photograph the indium drop in various stages of alloying. From these photographs the angle of wetting could be determined. After producing alloyed contact, the indium was etched away with hydrochloric acid and the contact surface was then sudied under the microscope. The authors make the following conclusions from the results obtained. 1) If unetched indium discs are used, then there will be always some patches of the contact surfaces which are not wetted by indium (Fig.2). Better results are obtained when either etched discs or unetched spheres of indium are used. The best results are achieved by the use of etched spheroidal lumps of indium; in this case no unwetted areas were found (Fig.3). Similar results were obtained for an alloy of indium with 0.5% of gallium. Additional gallium reduces

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Preparation of Plane Alloyed Contacts with Germanium.

the wetting ability of indium (Fig.4). 2) The effect of crystal orientation of the germanium surface appears in the anisotropy of wetting; the smallest angle of wetting is obtained when the (111) surface is used. This is shown in Fig.5, which gives the temperature dependence of the angle of wetting of germanium by indium for the (111) (curves 1 and 3) and (110) (curve 2) planes. To achieve the best p-n junctions, the authors suggest using spheroidally-shaped etched indium and (111) germanium surfaces. The temperature rise in the process of alloying should be about 250-300°C per hour. The junction diameter was of the order of 2 mm when 10-12 mg of indium were used. The authors thank V. A. Presnov who directed this work. There are 5 figures and 7 references, 4 of which are Soviet and 3 English.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

<u>Scauniversitete</u> imeni V.V.Kuybysheva (Siberian Physico-Technical Institute at Tomsk State University im, V.V.Kuybyshev)

SUBMITTED: March 20, 1958.

Card 3/3

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Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr. 8, p 374 (USSR)

AUTHORS:

Vyatkin, A.P., Presnov, V.A.

TITLE:

The Problem of the Nature of Soldering Ceramics With Metal

PERIODICAL:

Tr. Sibirsk, fiz.-tekhn. in-ta, 1958, Nr 36, pp 181 - 184

ABSTRACT:

In an oxidizing medium at 1,200°C soldered joints of magnoferrite ceramics with copper were obtained, having a high mechanical resistance and a good electrical contact without the effect of rectifying the alternating current. The ceramics and the metal oxides soldered with it, which were separated from the metal itself, were subjected to roent-genographic investigation after grinding. The analysis of the roentgenograms of the ceramics, the metal oxides and the transitional layer was cited, which have shown that in the soldering process a chemical interaction of the metal oxides with the components of ceramics takes place and that the structure of the transitional layer obtained is different from the structure of the reacting substance. The roentgenograms of the

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The Problem of the Nature of Soldering Ceramics With Metal

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transitional layer show the presence of a structure in it which is similar to spinel, and point also to the appearance of new substances with unexplained structure.

G. Gerashchenko

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Card 2/2

VYATKIN, A. P. (SFTI)

"The rules governing the wetting of germanium with indium in dependence on the surface treatment of indium, the crystallographic orientation of germanium, and the heat maintenance in the case of melting"

Report presented at a Conference on Solid Dielectrics and Semiconductors, Tomsk Polytechnical Inst., 3-8 Feb. 58. (Elektrichestvo, '58, No. 7, 83-86)

VYATEIH, A.P., insh.

Increasing the sensitivity of the HK-20 oxygen meter. Elek. sta. 29 no.10:89 0 58. (MIRA 11:11) (Feed water) (Oxygen-Measurement)

PODREZ, S.A., insh.; VYATKIN, V.P., kand.tekhn.nauk; PEREVOZCHIKOV, B.S., insh.

Should there be a decrease in the rigidity of the system and the moment of inertia of flywheels used in cold upsetting machines. Vest.mash.

38 no.10:79-80 0 '58. (MIRA 11:11)

(Flywheels)

VYATKIN, A. P., Cand of Phys Math Sci -- (diss) "The Study of Semiconductor-Metal Alloy Contacts," Tomsk, 1959, 11 pp (Tomsk State University im V.V. Kuybyshev)

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WAILDER: Library of Congress Card 5/5 X/20/63	Presery 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	"TRACTIC TATE RYBER of Surfess Condition on the Electrical Properties of Type Allis Compounds	Mirros, (Institute of Sectional Physics, Casoboalorsk Academy of Selected). Semiconductor Compounts With an Excess of the City Possents	A. Fr. and G. A. Pedonus. Effect of Tempering and Cartain on the Dark Resistance and Thotosemestivity of GAS Angle	E. and Y. D. Pursenho, Iffect of of GdS and CdSe on their Physical	Delin, L. D., and N. D. Abricosov. Problems of Libying Semicon-	Acres of Halida impurities on the Tapited Properties of Saladian Abbiliarra_G_B_s, G_B_Abbooker, A. I. Enliger, and S. A. Aligarors, On the Diffusion of Cartain Notate in Tolorers, bills, Giralin, September 1988.	Haiseg Tro-ching (Institute of applied Physics, Chinese Pacphe's Republic), importance of Units Pure Water for Washing Naturals Good in Semiconductor Engineering Abdullaryer, G. B., W. J. Illery, A. Bankshallaryer, G. B., N. J. Illery, A. Bankshallaryer, G. B., W. J. Bankshallaryer, G. B., W. B., W. B., W. B., W. B., W. Bankshallaryer, G. B., W. B	Potror, D. A., Tr. M. Danhers, V. V. keindestvenskyre, I. 16. DRUGTahles, and V. D. Erröstillova. Michies of Mileon Single Crystals	Troubli (Hastitte of Technical Physis: Camboslown kentmay of Melenses). Problem of Chaining Furm Hilson	Vasilerthyn. I.L., and is, in Maniph. Terestimities of Separation and Solubility of See Imperitor to Separation before from the first terestiments.	Valida, A. P., and V. i. Prince. Irrestigation of Moistaning of	Bugny, A. A., Y. Te. Losenho, and Te. C. Missipuk. Diffusion and Sols- Billy of Iron and Salver in Garmanian	Sommorth L. (Institute of Paysies, Polish Assisty of Sciences). Effect of the Introduction of Finerity Current Carriers on Light Re- flection From Cormanium	Nejeeshi, & (institute of Basis Technical Problems, Points issuings of Calenday). Properties of P-W junctions in Cormanium Single Crystals Withdrawn From the Mait by Pulling	Talpyre, R. B. Investigation of Halm Lones of Dissond-Type Crystals on the Carty of the Multipletten Therry Stigett, Assistation of Sections, Hungarian Popis's Republic). Generaling the Frohlem of Semiconductor Foint-Contests	Calorabor, T. On the Problem of the Role of Some Pactors in the Growth Problem of Crystals From a Mait	COTTRACE: The scalestion contains reports submitted at the Third Conference on Sandocodoutur Materials, hald at the Institute of Perializing Itemi i. A. Bayrow, AS USA, Moscow, is May 1973. The reports deal with problems of scheining and investigating germanium, silites, and semiconductor corporated. The scalestion was first study by D. A. Nitre, Device of Theories Science Information Systems 1 of the Theory of Theory and Science Information of the Computer of the Theory of the Computer of	PUNCE: This collection is intended for technical and scientific personnel concerned with the investigation and production of seminonductor materials it may also be used by students in schools of scientary.	Speakoring Agesty: Abdeslyn mach Sidt. Institut setallurgit insail A. A. Baytorn. Resp. Ed.: F. D. Abrikosov, Dotter of Chamical Sciences; Ed. of Publishing Rower: F. F. Labour.	Toprosy matallurghi i finiti polurrevodnikov; trudy 3-fe moreshchaniya. (Problems in the Metallurgy and Physics of Gemiconum tors; fransactions of the Third Conference) become in ad-re AN SSSN, 1999. 129 p. Errata slip inserted. 3,700 espice printed.	Sevenhalaire po peluprovodnikorym materialam. Kosco, 1977	
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AUTHOR:

Vyatkin, A.P.

TITLE: An investigati

'An Investigation of the Properties'of Fused Junctions of

Germanium and Tin

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959,

Nr 2, pp 48-52 (USSR)

ABSTRACT:

The electrical properties of fused junctions of tin and germanium of different specific resistance and type of conductivity were investigated by measuring the potential distribution. It was shown that in the case of hole-type germanium a rectification effect is observed. This effect increases as the specific resistance of the semiconductor increases. The potential distribution was measured as follows. A constant voltage was applied to the specimen from a battery of accumulators through a reversing switch. The specimen was held in a special micromanipulator. The potential drop was measured by means of a movable probe in the form of an electrolytically treated tungsten needle. The probe could be moved along the specimen through distances of 0.01 mm by means of the micromanipulator. All the measurements were carried out

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using potentiometers so that the specific resistance of

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An Investigation of the Properties of Fused Junctions of Germanium and Tin

the semiconductor could also be measured. The junctions were prepared by fusing in a vacuum in special graphite holders. Fig 3 shows the results obtained for p-type germanium (4 ohm cm) and tin. The voltage drop across the junction in this case is smaller than in the case of p-germanium and indium (Fig 2). It increases with increasing applied potential difference. In the case of p-germanium with a specific resistance of 30 to 40 ohm cm there are two jumps in the potential curve: one is due to the junction resistance and the other depends on the polarity of the applied potential difference and increases when this potential difference is increased (Fig 3). This jump indicates the presence of asymmetric conductivity and is observed only in the junction connected to the positive terminal of the supply. The rectification effect is much weaker than in the germanium-indium case. Fig 5 shows the jump in the potential as a function of the potential difference applied in the neighbourhood of the electrodes. The potential difference across the junction is plotted along the vertical axis and the applied

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An Investigation of the Properties of Fused Junctions of Germanium and Tin

potential difference across the horizontal axis.
Curve 1 refers to tin and p-germanium (30 ohm cm),
Curve 2 refers to tin and p-germanium (4 ohm cm),
Curve 3 to indium and p-germanium (4 ohm cm) and Curve 4
to indium and p-germanium (35 ohm cm). The asymmetric
conductivity is explained in terms of the diffusion of tin
into germanium. There are 7 figures and 9 references,
8 of which are Soviet and 1 English.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V. Kuybysheva (Siberian

Physico-Technical Institute of Tomsk State University

imeni V.V.Kuybyshev)

SUBMITTED: September 6, 1958

Card 3/3

"APPROVED FOR RELEASE: 09/01/2001

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SOV/139-59-2-26/30

AUTHORS:

Vyatkin, A.P. and Vertoprakhov, V.N.

TITLE:

The Surface Energies of Faces of Germanium Crystals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959,

Nr 2, pp 169-170 (USSR)

ABSTRACT:

Stranski and Suhrmann's methods and formulae are applied to germanium crystals; Table 1 lists results, as ratios

of ohkl to olll, and Table 2 compares the actual

values (from Ref 5) with those for other elements or for compounds of similar structure (the topmost entry is "diamond"). It is also shown that the work functions of these surfaces fall in the sequence to be expected from

the surface tension data. There are 2 tables and 9 references, 6 of which are Soviet, 2 English and

1 German.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom

gosuniversitete imeni V.V.Kuybysheva (Siberian Physico-Technical Institute of the Tomsk State University imeni

V. V. Kuybyshev) SUBMITTED: June 12, 1958

Card 1/1

SOV/96-59-7-6/26

AUTHOR: Vyatkin, A.P., Engineer

TITLE: An Analysis of Different Methods of Connecting a Hydraulic Coupling as a Control Device (Analiz razlichnykh skhem vklyucheniya gidromufty kak reguliruyushchego organa)

PERIODICAL: Teploenergetika, 1959, Nr 7, pp 22-26 (USSR)

ABSTRACT: The main methods of connecting a hydraulic coupling are as follows: with an overhead pressure tank and a throttling device on the line from the tank to the coupling; with an intermittently-operating reversing pump; or with a continuously-operating pump. A most important criterion of such systems is their inertia, that is, the time required to transfer the coupling from one steady state to another. This article analyses the various methods of connection in turn. The first method considered is that in which there is an overhead tank and a throttling device on the line from the tank to the coupling. A theoretical analysis of this case was given in an article by the same author in Teploenergetika Nr 3, 1958, where the transient process equation (1) was derived. The heat and plectric power station of the Moscow Card 1/4 Power Institute has a hydraulic coupling connected in this

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An Analysis of Different Methods of Connecting a Hydraulic Coupling as a Control Device

way, which is schematically illustrated in Figure 1. Experimental curves of the transient processes of this installation are given in Figure 2. Various measures to improve the transient characteristics are described, and the resulting schematic diagram of the equipment and performance curves are given in Figure 3. It is shown that the transient performance of this system can be made satisfactory. However, one of its disadvantages is that the entire circulation circuit must be hermetically sealed, which is often difficult or even impossible to accomplish. The method of control using an intermittently-acting reversing pump is then considered. Equations of the transient process are derived, the corresponding theoretical curves being plotted in Figure 5. Experimental curves of a hydraulic coupling controlled in this way are given in Figure 6. Within limits the transient process time may be reduced by increasing the pump output, but other methods

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SOV/95-59-7-6/26

An Analysis of Different Methods of Connecting a Hydraulic Coupling as a Control Device

of achieving this end are also considered. Another method of controlling the hydraulic coupling by means of a reversing pump is to have the pump directly connected to the overhead pressure tank, as shown in Figure 8. The equation of the transient process for this case is derived; the corresponding curves are given in Figure 9 and experimental curves in Figure 10. In this method the pump output is of particular importance. In the next case considered the pump operates continuously, and the practical variants of Figure lla and b may be replaced by the schematic arrangement of Figure 1lv. Again the equation is derived, and corresponding experimental curves, which relate to the circuit of Figure 11b, are given in Figure 12. It is concluded that the method most suitable for automatic control is that with an intermittently-operating reversing pump connected directly to the overhead tank, because inertia is minimised. If the working fluid circuit can be hermetically sealed, the method with an over-Card 3/4 head tank and a throttling device is the most simple and

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An Analysis of Different Methods of Connecting a Hydraulic Coupling as a Control Device

reliable. The method with a continuously-operating pump is the least satisfactory. With any of these methods of connection the inertia of the coupling is greatly affected by correct selection of such factors as nozzle diameters, hydraulic resistance of pipes and so on.

There are 12 figures and 1 Soviet reference.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Institute)

Card 4/4

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5/576/61/000/000/008/020

E036/E162

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AUTHORS:

Presnov, V.A., Izergin, A.P., Krivov, M.A.,

Vyatkin, A.P., Stroiteley, S.A., Melichenko, E.N.,

Malisova, Ye.V., Selivanova, V.A., and

Grigor yeva, A.G.

TITLE

An investigation of gallium arsenide

SOURCE

Soveshchaniya po poluprovodnikovym materialam, 4th. Voprosy metallurgii i fiziki poluprovodnikov; provodnikovyye soyedineniya i tverdyye splavy. Trudy soveshchaniya. Moscow, Izd. vo AN SSSR, 1961.

Akademiya nauk SSSR. Institut metallurgii imeni A.A. Baykova. Fiziko-tekhnicheskiy institut.

The large energy gap and high electron mobility in gallium arsenide indicate its possible uses in the construction of semiconductor devices for high temperature operation or as a useful photo element. The present paper gives the results of investigations into the electrophysical and rectifying properties of gallium arsenide. The samples, obtained by fusing in ampoules and zone refining, were subjected to measurement of Hall constant,

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An investigation of gallium arsenide

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thermo-e.m.f. and electrical conductivity as a function of iemperature, as well as measurements of variation of resistivity with magnetic field. The bars used in the measurements were either single-crystal or had a coarse crystallane structure; ohmic contacts were made by alloying in tin in vacuum. Before zone refining, resistivities twenty or more times less than that of the material after zone refining can be obtained, and thus refining gives crystals of increased purity. An anomaly was observed in the curve of magneto-resistance 2.0% and a function of magnetic field for patype material at 105 %. The fractional change in resistivity decreased to a minimum before increasing again; similar results were reported by Fritzeche and Lark-Horovitz (Ref. L. Phys. Rev., 1955, 99, 400), on InSb et 12 0K. Compensation is stated to be involved in this effect. From the variation of thermo-e, m.f., a, with temperature, the effective mass is evaluated using the Pisarenko formule, essuming that electrons are scattered by lattice vibrations schording to a T-3/2 law, where T is the temperature in "K. The ralue of 0.027 agrees with that obtained by Barris (Ref. 2; Physica, 1954, Vol. 20, 11). Card 2/ 7

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The curves of log o against I/T, where o is the electrical conductivity, varied markedly with the degree of purity (that is, the number of passages of the zone during zone refining). In Fig. 4a, curve 1 is for an unrefined sample showing little change in o at low temperatures; curve 2 is for the sample after the passage of one zone; and in Fig. 46 curve 3 is after the passage of six zones. The decreasing conductivity of the latter over the range 30-2000 with increasing temperature is due to reduced electron mobility. Similar effects of zone refining on carrier concentration are also observed. From these curves the acceptor impurity activation energy was found to be 0.25 eV, and for the donor, 0.12 eV. Preliminary data showed that electro-purification in high electric fields and measurement by pulses was necessary. In addition to these measurements, current - voltage curves of point-contact diodes of GaAs are reported as a function of temperature. The surfaces were polished, etched and washed before a tungsten or phosphor-bronze point contact was applied. The ohmic contact was made by alloying tin, lead or silver. The rectifying characteristics of n-type material were significantly better than

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E036/E162

An investigation of gallium arsenide

for p-type, the rectifying coefficients being 10^4 - 10^5 and 10^2 respectively. The reverse voltages and breakdown stability were also better in n-type samples. Reverse voltages of 10-15 V were obtained after the passage of six zones during purification. Temperature stability over the range $20-300^\circ$ was very good for diodes with the silver ohmic contacts, as shown in the current-voltage curves of Fig. 7. The usual metal-semiconductor theory is applied to the results in the range below 1 V; that is the equation:

 $I = I_0(e^{\alpha V} - 1) \tag{1}$

is assumed, where $\,V\,$ is the voltage drop across the barrier and $\,I_{\,O}\,$, the saturation current, is given by

$$I_{Q} = Ce \exp (-qV_{k}/kt),$$

 V_k being the barrier height. Both the constant α and V_k are calculated from the results. Although at room temperature α = 19 V⁻¹, and thus deviates significantly from the theoretical value of 40 V⁻¹, this can have many causes, in particular Card 4/7

30951 An investigation of gallium arsenide 5/576/61/000/000/008/020 E036/E162

failure to take account of surface conductivity. From the variation of the reverse saturation current with temperature the barrier height V_k is found to be 0.8 eV. For p—n junction rectification the barrier height would approximate to the energy gap of 1.4 eV, in considerable disagreement with the experimental value. A better agreement is possible if a metal-semiconductor contact is assumed, although the analysis cannot be considered final.

There are 9 figures and 5 references: 2 Soviet-bloc, 1 Russian translation from non-Soviet-bloc publication, and 2 non-Soviet-bloc. The English language references read as follows:

Ref.1: Fritzsche, Lark-Horovitz. Phys. Rev., 1955, Vol.99, 400.

Ref.2: Barrie, Physica, 1954, Vol.20, 11.

CAPTION TO FIG.7: Temperature dependence of current-voltage

CAPTION TO FIG.7: Temperature dependence of current-voltage curves. $1 - 20^{\circ}$; $2 - 100^{\circ}$; $3 - 140^{\circ}$; $4 - 234^{\circ}$.

Card 5/7

5/196/62/000/002/018/023 E194/E155

AUTHOR:

Vyatkin, A.P.

TITLE

Measurement of the specific gravity of gas

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.2, 1962, 37, abstract 2G 272. (Elektr. stantsii, no.7, 1961, 84-85).

In burning gas fuel of variable composition it is TEXT: necessary, for measurements of consumption, to know its specific gravity. A schematic diagram is given of an instrument for continuous measurement of specific gravity. The instrument consists of two tubes of a certain height, one of which is filled through a throttle with gas from the gas main and the other with air. When the gas and air are of different specific gravity a pressure difference is set up at the bottom of the tubes which is measured by a differential manometer. The pressure difference indicates the specific gravity of the gas.

[Abstractor's note: Complete translation.]

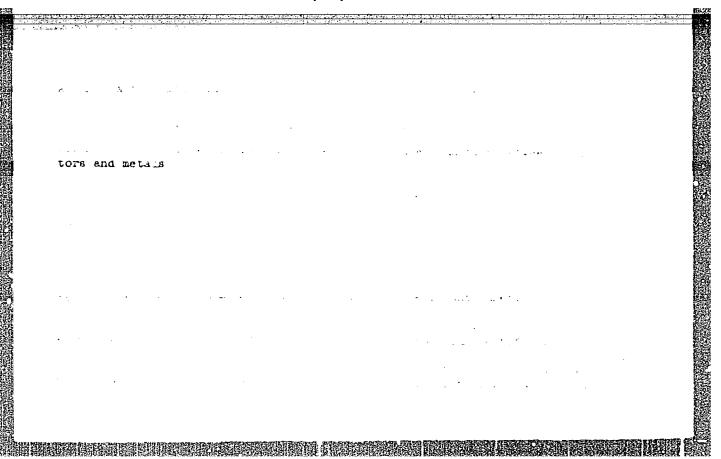
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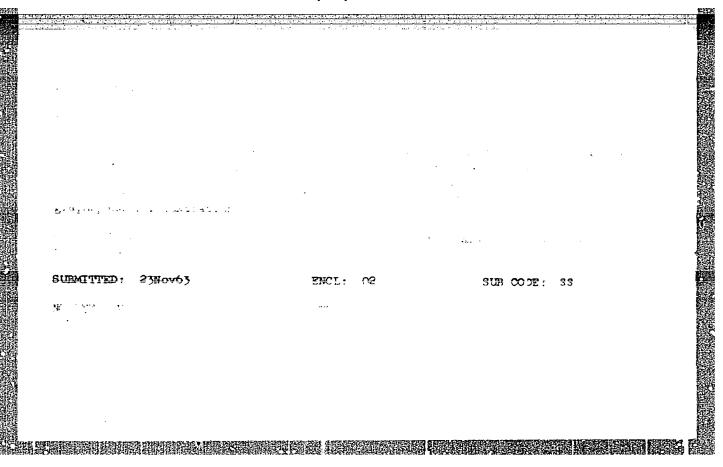
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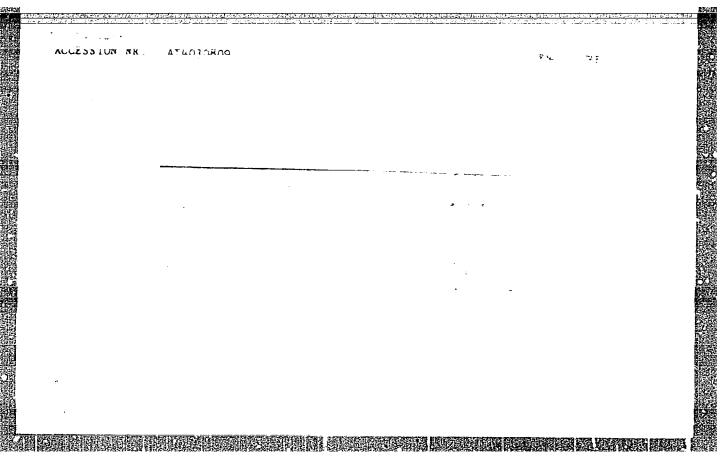
[Measurement of the temperature of liquid metals, moisture of substances, and concentration of solutions] Izmerenie temperatury zhidkikh metallov, vlazhnosti veshchestv i kontsentratsii rastvorov. Red. A.P. Viatkin. Moskva, Mosk. energ. in-t, 1962. 109 p. (MIRA 16:10) (Chemical engineering—Handbooks, manuals, etc.)

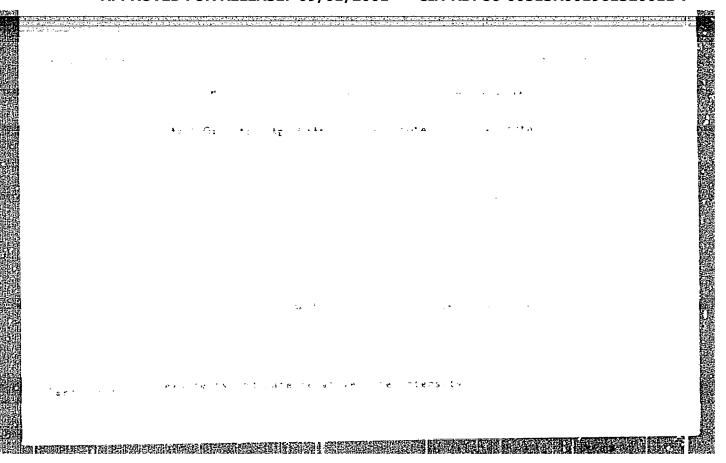
	L 12820-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD S/2927/62/000/000/0259/0266	
	AUTHOR: Presnov, V. A.; Vyatkin, A. P.; Novotny*y, S. I.; Khludkov, S. S.; 62 Vilisov, A. A.	
	TITLE: Investigation of rectifying properties of gallium arsenide [Report at the All-Union Conference in Semiconductor Devices, Tashkent, 2-7 October, 1961]	
-	SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 259-266	
	TOPIC TAGS: GaAs rectifier	
	ABSTRACT: The work is a continuation of research in point-contact diodes and	
	diffusion junctions in p-type GaAs (Presnov, V. A., at al. Reports at the 5-rd Vuz Conference on Modern Dielectrics and Semiconductors, Leningrad, 1960). GaAs was prepared with resistivities from a few 10-4 c 10-1 ohm.cm. Only n-GaAs exhibited	
-	good rectifying properties; diodes with 0.005-0.01 ohm.cm resistivity and 10 17 - 10 18 cm 3 electron concentration showed a good rectification factor, large forward currents, low cutoff voltages, and reverse voltages of 5-10 v. Higher-resistivity diodes showed a higher reverse voltage, a smaller forward current, and	
	Card 1/2	

2 12820-63 ACCESSION NR: AT3003016		4
20-3500. Effect of strong with 20-microsec pulses at garriers by ionizing impur tharacteristics was measur junctions of p-GaAs: currediffusion of Ge, Se, and S	slectric fields on JaAs ohmic point 250 cps; it was found that the structure centers. Also effect of forming red. A separate investigation was magnitude to the separate investigation was magnitude to the separate controllar of junct 6 were measured. "The authors express ared GaAs and to B. A. Selivanov, A. melp in the work." Orig. art. has: 9	ong field produces on the current-voltage e of diffision p-n ons obtained by their deep gratitude M. Palkin, and
ASSOCIATION: none		
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S/070/63/008/002/008/017 E021/E120

AUTHORS: Vasil'yev A.P., and Vyatkin A.P.

TIME: Investigation of the crystallographic orientation and etching of gallium arsenide by the method of optical figures

PERIODICAL: Kristallografiya, v.8, no.2, 1963, 248-254

TEXT: The method described by V.N. Vertonrakhov (Kristallogr. v.6, no.5, 1961; 753) was used in the investigation. The diameter of the parallel pencil of light was 1 - 1.5 mm. The samples investigated were flat parallel plates cut parallel to the main crystallographic planes (100), (110) and (111). The etchants used were of the compositions HF:30% H₂O₂:H₂O = 1:1:2 and 30% H₂O₂: :5% NaOH = 1:5. Photographs of the optical figures from the main crystallographic planes of the etched crystal are shown after 1 - 10 minutes etching. Dissolution was anisotropic and with increase in etching time the etch figures became sharper. It was shown that the anisotropic character of dissolution could be used for controlling the orientation of flat plates and also for determining the crystallographic orientation of single crystals. Card 1/2

Investigation of the crystallographic... S/070/63/008/002/008/017

The optical figures from the main crystallographic planes of gallium arsenide had a different appearance from the figures for germanium and silicon. It was established that only the plane (111) bounded by the atoms of gallium gave optical figures after etching. The method could thus be used to distinguish between (111) and (111) planes.

There are 5 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskikh nauchno-issledovatel-skiy institut pri Tomskom gosudarstvennom universitete im. V.V. Kuybysheva

(Siberian Physicotechnical Scientific Research Institute at Tomsk State University imeni

V.V. Kuybyshev)

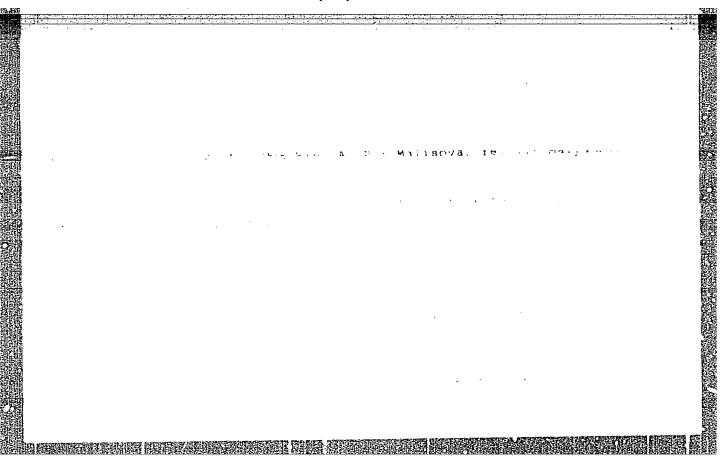
SUBMITTED: June 6, 1902

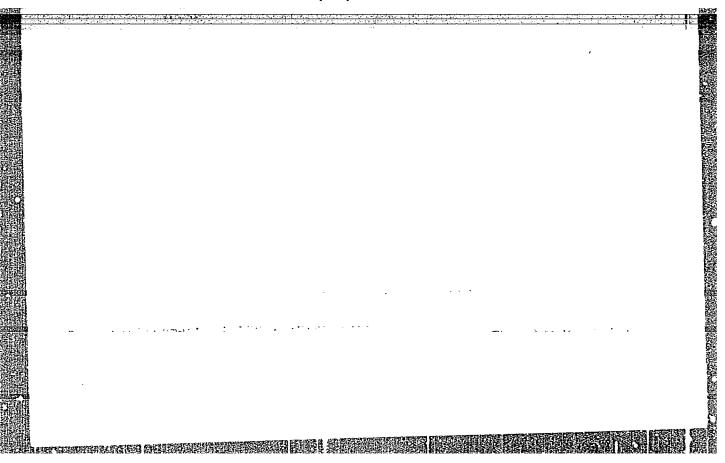
Car: 2/2

LAVRENT YEVA, L.G.; VYATKIN, A.P.; PRESNOV, V.A.

Tunnel effect in films of degenerate gallium arsenide. Izv. vys. ucheb. zav.; fiz. no.5:174-176 '63. (MIRA 16:12)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.





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VASIL'YEV, A.P.; WYATKIN, A.P.

Use of the method of light figures in studying the crystallographic orientation and etching of gallium arsenide. Kristallografiia 8 no.2:248-254 Mr.Ap '63. (MIRA 17:8)

1. Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'skiy institut pri Tomskom gosudarstvennom universitete imeni Kuybysheva.

JD/JG/GS L 00709-66 EWA(h)/EWT(1)/EWT(m)/FWP(h)/T/EWP(t) IJP(c) UR/0000/64/000/000/0205/0218 ACCESSION NR: AT5020467 Presnov. AUTHOR: Vyatkin B. A.; Yakubenya, M. (Professor); Selivanov, TITLE: Process of formation and structure of alloyed contacts of gallium arsenide with gold and silver SOURCE: Mezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovodnikov (Poverkhnostnyye i kontaktnyye yavleniya). Tomsk. 1962. Poverkhnostnyye i kontaknyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 205-218 TOPIC TAGS: gallium arsenide, gold alloy, silver alloy, semiconductor research, semiconducting material ABSTRACT: The authors study the process of formation, structure and some properties of fused gallium arsenide contacts with gold and silver. The melting points, coefficients of thermal expansion and microhardness of the various alloys formed at the <u>semiconductor-metal</u> contact were measured. Alloys of gallium arsenide with silver have a melting point of 750-760°C. The melting point of the gallium arsenide-gold-alloy produced in a vacuum is 350-360°C, while that produced in an argon Card 1/2

ACCESSION NR: AT5020467

atmosphere is 575°C. This indicates that the composition of alloys of gallium aratmosphere is 575°C. This indicates that the composition of alloys of gallium aratmosphere is 575°C. This indicates that the composition of alloys are formed. Alsenide with gold depends on the conditions under which the alloys are formed. Alloys with gold prepared in argon showed the least change in the coefficient of love with gold prepared in argon showed the least change in the coefficients of linear expansion linear expansion. Alloys produced in vacuum have coefficients of linear expansion linear expansion coefficients from gallium arsenide, which may be the reason for the compansion coefficients from gallium arsenide, which may be the reason for the compansion coefficients from gallium arsenide with siderable thermal stresses which arise in alloys is considerably lower than that of

gold and silver. Microhardness for all alloys is considerably lower than that of gallium arsenide. X-ray structural analysis shows that the gallium arsenide-silver contacts are composed of eutectic silver and polycrystalline GaAs. The interaction between gallium arsenide and gold in vacuum produces a chemical compound. The galbetween gallium arsenide and gold in argon gas is composed of eutectic gold and lium arsenide-gold contact produced in argon gas is composed of eutectic gold and gallium arsenide. Contacts of gallium arsenide with gold and silver may be used as ohmic contacts. Orig. art. has: 7 figures, 3 tables.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitet im V. V. Kuybysheva (Siberian Physicotechnical Institute at the Tomsk

State University 44,65
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OTHER: COO

Card 2/2

UR/0000/64/000/000 AT5020468 ACCESSION HR: AUTHOR: Vyatkin, A. P.; Vasil'yev, A. F. TITLE: Some anisotropic properties of gallium areenide and their effect on the geometry of alloyed contacts SOURCE: Hezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizika poluprovodnikov (poverkhnostnyve i kontaktnyve yazleniya). Fomsk, 1962. Poverkhnostnyve i Kuntaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 219-232 TOPIC TAGS: gallium arsenide, semiconducting material, crystal anisotropy, crystallography ABSTRACT: The authors study the alloying process and the kinetics of the formation of fused contacts of gallium arsenide with a metal with respect to the crystallographic orientation of the semiconductor surface. The metal used was tin, a donor impurity with respect to gallium arcenide. It is shown that light figures may be used for crystallegraphic orientation of gallium arsenide crystals and for delimination of (111) surfaces bounded by atoms of gallium and arsenic. The dissolution of gallium arcenide in molten tin is studied as a function of crystallographic Cord 1/2

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orientation, temperature of the solvent and concentration of the gallium argenide in solution. It is established that the rate of dissolution along the principal crystallographic axes taken the following sequence

v[[1]] > v[100] > v[110] > v[111].

Thus the process of gallium arsenide dissolution in tin is anisotropic in nature. The geometry of fused contacts of tin with gallium arsenide is studied in various crystallographic planes. It is shown that the flattest junctions are formed when the metal is fused in plane (111). Data on the electrical properties of the contacts were obtained by measuring the potential distribution in a contact-semiconductor-contact system. It was found that alloyed contacts of tin with n-gallium arsenide are chmic. Tin forms a rectifying junction with p-type gallium arsenide. The experimental results agree with those of other authors. "We thank V. A. Presno for interest in the work and consultation, and A. P. Izerzin and S. S. Khludkov for furnishing the material." Origi art. has: 12 Figures, 4 tables.

ASSOCIATION: Sibirakly fiziko-tekhnicheskly institut (Siberien Physicotechnical Institute)

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ACCESSION NR: AT5020470

UR/0000/64/000/000/0238/0253

AUTHOR: Vyatkin, A. P.; Vilisov, A. A.

B+1

TITLE: Gallium arsenidg point-contact diodes

SOURCE: <u>Mezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovod-nikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk. 1962.</u> Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semi-conductors). Tomsk, Izd-vo Tomskogo univ., 1964, 238-253

TOPIC TAGS: semiconductor diode, gallium arsenide, semiconductor research, tunnel diode

ABSTRACT: The authors give a brief survey of previous literature on the general and rectifying properties of a gallium arsenide-metal point contact. Data are given on the processes of electrical forming applicable to manufacture of rectifiers and tunnel diodes. Results are given for quantitative calculations of electrical forming of a gallium arsenide-metal point contact. The calculations are made for two cases: 1) for the case of spherical symmetry assuming that the point contact has no size, i. e. the contact is represented as a mathematical point; 2) for the case of ellipsoidal symmetry, taking the actual dimensions of the contact between metal

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ACCESSION NR: AT5020470

and semiconductor into account. In this case, the contact is represented as a circle, and the radius appears in the calculations. It was found that n-gallium arsenide gives point-contact diodes with good rectifying properties and high thermal stability. The current-voltage characteristics of the diodes are given by the relationship

During electrical forming, the current passing through the contact between metal and n-gallium arsenide heats the area of the semiconductor near the contact and converts it to a p-region. Rectification in the diodes after forming takes place at the n-p junction. The quantitative calculations of electrical forming may be used for approximate prediction of some of the characteristics of the diode after forming. Where experimental agreement is good, the results of these calculations may serve as a guide for manufacturing point-contact diodes with predetermined characteristics. It is shown that electrical forming may be successfully used for manufacturing tunnel diodes based on gallium arsenide. Orig. art. has: 10 figures 5 formulas.

ASSOCIATION: none

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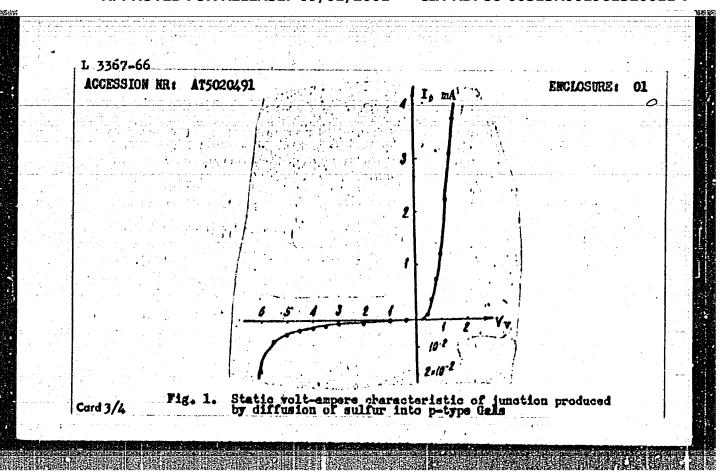
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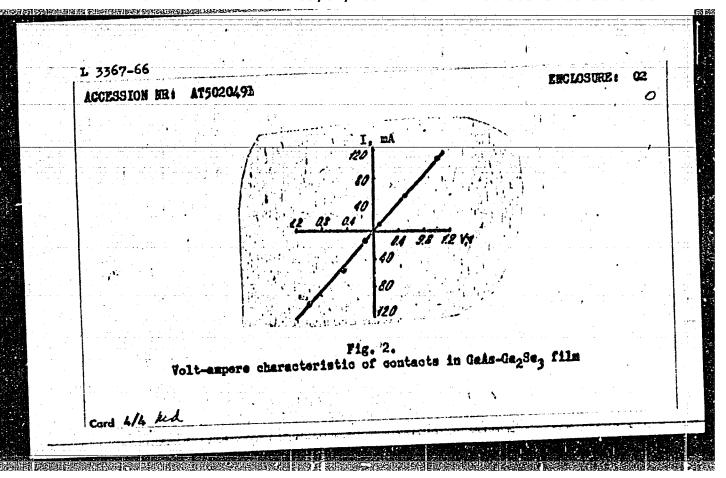
IJP(c) EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(h) JD/GS L 3367-66 UR/0000/64/000/000/0446/0456 ACCESSION NR: AT5020491 AUTHORS: Khludkov. S. S.; Vyatkin, A. P.; Grishin, V. I.; Presnov, V. A. (Pro-55 31,44,55 8+1 TITLE: Diffused p-n junctions in gallium argenide SOURCE: Nezhvuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. Poverkhnostnyye i kontaktuyye yavleniya v poluprovodnikakh (Surface and contact phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1964, 446-456 TOPIC TAGS: gallium arsenide, pn junction, sulfur, germanium, selenium ABSTRACT: Diffused p-n junctions in p-type gallium arsenide, p-n junctions in n-type GaAs, and also p-n-p structures in p-type GaAs were studied, and the methods of producing these junctions are discussed. The p-n junctions were produced by diffusion of sulfur and germanium in evacuated quartz ampules (10-4_10-5 mm Hg) with subsequent annealing, grinding, and etching (5% NaOH + 30% NoO, in 5:1 ratio). The p-n-p structures were prepared by diffusion annealing of GaAs in selenium vapors at 750-11000 for 0.5-22 hrs with a selenium concentration in the vapor of Card 1/4

	L 3367-66 ACCESSION NR: AT5020491
	5.10 ¹⁷ -9.10 ¹⁹ cm -3. The static volt-ampere characteristic of a junction produced by diffusion of sulfur into p-type GaAs is shown in Fig. 1 on the Enclosure of duced by diffusion of sulfur into p-type GaAs is shown in Fig. 1 on the Enclosure of
	The garmanium-diffusion junctions in the patype wants had reconstitution rates
	up to 4.105, while those produced by sulfur diffusion had a factor of 6.103. In the case of n-type Gais, the germanium-diffusion junctions had a rectification
	factor of about 7.104. The volt-empere characteristic of contacts in GaAs-Ga2Se3
	film is shown in Fig. 2 on the Enclosure. Orig. art. has: 7 graphs, 2 diagram
	and 2 formulas.
	ASSOCIATION: none
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EWT(m)/T/EWP(t)/EWP(b)/EWA(c) __JD/JG___ L 2717-66 UR/0139/65/000/003/0152/0153 AP5017186 ACCESSION NRI AUTHOR: Vasil'yev, A. P.; Vyatkin, A. P. TITIE: Diagram of state of gallium arsenide-tin system SOURCE: IVUZ. Fizika, no. 3, 1969, 152-153 TOPIC TAGS: gallium arsenide, tin containing alloy, alloy phase diagram, solubili-ABSTRACT: This is a continuation of another study by the authors (Voprosy radioelektroniki, seriya II, in press) devoted to the rules governing the formation of alloyed contacts between gallium arsenide and tin. Using the data obtained in that study on the solubility of the semiconductor in the metal, the authors derive an approximate state diagram for the GeAs-Sn system. These results are of interest because a direct construction of the diagram from cooling data is made difficult by the irreversible decomposition of the gallium arsenide and by the high vapor tension of the arsenic over this compound. The temperature at which the liquid phase appears in the GaAs-Sn system lies in the interval 210--225C, which is somewhat lower than the melting point of pure tin, thus confirming the existence of a eutectic alloy on the tin side. The solubility of GeAs in tin is quite low until 400C is reached. The solubility of tin in GeAs is judged to be not higher than 1%.

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L 45910-66 EWT(m)/EWP(t)/ETI IJP(c) JD / SOURCE CODE: UR/0275/65/000/011/B035/B035

AUTHOR: Vilisov, A. A.; Vyatkin, A. P.

ITLE: Thermal forming of gallium arsenide point diodes

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 11B275

REF SOURCE: Dokl. Nauchno-tekhn. konferentsii, posvyashch. dnyu radio. Tomsk, Tomskiy un-t, 1964, 29-32

TOPIC TAGS: semiconductor diode, gallium arsenide, PN junction

ABSTRACT: Contact forming was done by passing a current through a nichrome wire welded to an electrode at a distance of 1-1.5 mm from the tip. The thermoelectromotive force was measured during forming. A change in the sign of the thermoelectromotive force is observed during rather intense forming which indicates formation of a PN junction. The processes observed during thermal forming show characteristics similar to those observed for the case of electrical forming. However, a value of 40 v^{-1} has been achieved with thermal forming for a (in the expression $I=I_0\exp aU$) which has not been possible with electrical forming. Bibliography of 8 titles. L. L. [Translation of abstract]

SUB CODE: 09

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UDC: 621.382.2.002;546.19'681

KULISH, U.M.; VYATKIN, A.P.

Dislocation structure of alloy contacts between semiconductors and metals. Izv. vys. ucheb. zav.; fiz. 8 no.6:157-161 '65. (MIRA 19:1)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D. Kuznetsova. Submitted May 26, 1964.

CIA-RDP86-00513R001961320011-7

VASILIYEV, A.P.; VYATKIN, A.P.

Diagram of state for the system gallium arsenide - tim. Izv. vys. ucheb. zav.; fiz. 8 nc.3:152-153 165. (MIRA 18:9)

1. Sibirskiy fiziko-tekhnicheskiy institut imeni V.D.Kuznetsova.

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CIA-RDP86-00513R001961320011-7

VYATKIN, A.V., general-mayor aviatsii

Ties with the workers are becoming stronger. Vest.protivovozd.obor (MIRA 15:2)

(Russia-Armed forces-Political activity)

Vyatkin, Arkadiy Vasil'yevich

Bor'ba za yedinyy rabochiy i antiimperialisticheskiy front v stranakh Latinskoy Ameriki (by) A.V. Vyatkin, N.V. Hyachin (1) M.I. Mokhnachev. (Ot. red. A.A. Gruber) Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1963.

306 p.

At head of title: Akademiya Obshchestvennykh Nauk. Kafedra Istorii Mezhdunarodnogo Kommunisticheskogo i Rabochego Dvizheniya.

Bibliographical footnotes.

SHESTIANTYNOV, S.I.; KORENEV, N.I.; GARELIK, Y.N.; YYATKIN, M.D.

Drying lumber in the chamber-24 produced by the Central Scientific Research Institute for Machine Weedworking. Der.prem. 5 me.6:18-19 Je 156. (MIRA 9:9)

1. Rechitakiy mebel'nyy kembinat. (Lumber--Drying)

VYATKIN, A. Ye.

Deputy People's Commissar of Machine-Tool Building USSR (-1943-).

"Immediate Objectives of the Machine-Tool and Tool Industry in 1943", Stanki I Instrument, 14, No. 1-2, 1943.

BR-52059019.

38048. VYATKIN, A. YE.

Mekhanizaisiya truda -- vedushchaya liniya sotsialisticheskogo. proi, vodstva. Medhanizatsiya trudoemkikh i tyazhelykh rabot, 1949, No. 12, s. 6-11 PEREPISKA stakhanovtsav. Sm. 37991

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	For progress in tekh. no.2:3-5	the technology of Mr-Ap '55. (Instrument	(MIRA 8:	9)	
					*

VYATKIN, A.E.

AUTHOR: Vyatkin, A.E.

122-4-18/29

TITIE:

Czechoslovak engineering production plant (from information gathered at the Second Czechoslovak Engineering Exhibition). (Chekhoslovatskoe mashinostroenie (Po materialam II Vystavki Chekhoslovatskogo Mashinostroeniya)).

PERIODICAL: "Vestnik Mashinostroeniya" (Engineering Journal), 1957, No.4, pp. 74 - 81 (U.S.S.R.)

ABSTRACT: Brief catalogue notes covering: 1) large copying lathes SR 2000/6000 swinging up to 2 000 mm dia. with a distance between centres of 6 000 mm; 2) a copying semi-automatic lathe with electro-hydraulic programme controller. Photographs of the copying tool support and a diagrammatic sketch of the copying circuit are shown; 3) semi-automatic lathe, type SPT7 for turning camshafts by the copying method; 4) semi-automatic capstans for bar up to 50 mm diameter. Bar feeding automatic capstans for bar up to 50 mm diameter. Bar feeding and clamping is accomplished pneumatically; 5) a heavy boring mill with one main and one high-speed spindle. The machine is pneumatically controlled; special devices available for setting up precise depths of boring to an accuracy of 20 µ. A variety of sizes is available. 6) A large assortment of horizontal and vertical milling machines. 7) A special milling machine mounted on a mobile outrigger. Several models of

Czechoslovak engineering production plant (from information gathered at the Second Czechoslovak-Engineering Exhibition). (Cont.)

automatic copying milling machines. 8) Several large gear hobbing machines up to 2 000 mm dia. and more. 9) Cylindrical grinding machine with an infinitely variable control of speed, hydraulic feed of the machine table and vibration isolation of all the motors and transmissions from the body of the machine. 10) Hydraulic presses of 80 to 100 tons specialised for the pressing of plastics. Hydraulic presses for compacting sheet metal waste, scrap and swarf. 11) Coining crank presses of up to 2 000 tons with an accumacy of 0.1 mm. 12) Forging presses up to 4 000 tons, 60 strokes per minute. 13) Horizontal forging machines of up to 1 200 tons and other forging machines. 14) Electric spark micro-drills for the piercing of holes in very hard materials. 15) An electric spark slotter for slotting of carbide and hard steel. 16) An electric spark screw cutting machine. (17) An ultrasonic drill for pircing holes up to 15 mm diameter.

AVAILABIE:

VYATKI	New 8	chievemen	its of Russia	an machinery	. Yest.mash.	[37]	no.11:3 (MIRA 10:10)	
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CIA-RDP86-00513R001961320011-7

SOV-115-58-3-1/41 AUTHOR: Vyatkin, A.Ye.

The Composition and Prime Tasks of the State Measurement-Con-TITLE: trol Laboratories. (Sostoyaniye i blizhayshiye zadachi gosudarstvennykh kontrol'nykh laboratoriy po izmeritel'noy tekh-

nike)

Izmeritel'naya tekhnika, 1958, Nr 3, pp 3-9 (USSR) PERIODICAL:

The article is a general review of development in the field ABSTRACT: of state control of measurement techniques after the reorganization of the industrial administrative system, (1955 directive). The Committee of Standards, Measures and Measuring Devices reorganized its local branches into state control laboratories for measurement techniques (GKL). During 1956 -1958, 35 GKL of class I, 45 of class II, and 55 of class III were organized. There are now 275 such laboratories and their branches. They have obtained 23.4 million rubles of equipment.

and they will obtain 27 million rubles more in 1958-1959. 17 of the I class and 13 of the II class GKL are already fully equipped: the rest is only 70 to 80 % equipped. The CKL have obtained 250 "GAZ-69" and 32 "GAZ-51" automobiles for mobile

inspection laboratories in rural regions. However, the labor-Card 1/4

SOV-115-58-3-1/41

The Composition and Prime Tasks of the State Measurement-Control Laboratories.

atories of Altay, Astrakhan', Kursk, Perm', Chelyabinsk, Tadzhik and Turkmen SSR, Komi ASSR and others have not yet converted their automobiles in this way. During 1956-1957, 500 specialists with higher and secondary technical school training were assigned to GKL; the number of GKL chiefs possessing higher technical training increased to 50%; about 250 young graduates of higher and secondary technical schools were sent to CKL; 700 of the personnel are taking higher and secondary technical training through correspondence schools. Despite these figures, the training is not sufficient in general, and particularly in the Kazakh, Kirgiz , Latvian, Moldavian and Tadzhik SSRs. The level of the GKL work largely depends on the work of the institutes of Committee of Standards, which now equals foreign work in many fields and even surpasses it in some. But it still takes 2 years and more after finished development of devices until the first lot is produced. The institutes are now sending experts to GKL for practical assistance in mastering the new measuring devices and they have organized practical training of GKL personnel in the institutes. The position improves where the Committee of

Card 2/4

SOV-115-58-3-1/41

The Composition and Prime Tasks of the State Measurement-Control Laboratories

Standards organizations continuously controls and guides the work. By 1958, there had been organized 8,700 local inspection centers, 1,300 stationary open-type repair workshops and 5,000 closed-type workshops for measuring devices, and 730 organizations surveying measures and measuring devices on a contract basis. The plan for standardization and metrology for 1959-1965, developed by the Committee of Standards, includes the organization of 9 inter-oblast! Base Laboratories in Alma-Ata, Irkutsk, Kiyev, Kuybyshev, Livov, Minsk, Tashkent, Tbilisi and Khabarovsk. These will have the functions of institutes in checking the standard measures and instruments of high accuracy classes. They will give practical training to personnel and practical assistance to other laboratories. Repair and adjusting workshops will also be set-up for outside organizations at 60 laboratories situated in large industrial centers.

Card 3/4

SOV-115-58-3-1/41

The Composition and Prime Tasks of the State Measurement-Control Laboratories

The number of engineer positions in laboratories will be raised to 45-50% of the total number of personnel.

Industrial plants--Operation
 Management engineering--Applications
 Measurement--Standards
 Weights--Standards

Card 4/4

S/123/60/000/008/001/017 A004/A001

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1960, No. 8, p. 12, # 37384

AUTHOR:

Vyatkin, A.Ye.

TITLE:

Accuracy, Interchangeability and Technical Measurements in Mechanical Engineering According to Soviet and International Standardization

PERIODICAL:

V.sb.: Osnovn. vopr. tochnosti, vzaimozamenyayemosti i tekhn. izmereniy v mashinostr. Moscow, Mashgiz, 1958, pp. 13-23

TEXT: The author shows the development trends of state standardization in the USSR. Standards which are based on contemporary achievements of science and technology, envisage a number of types and technical production features which have not only been introduced at advanced factories but are going to be introduced. The standards establish new and more advanced forms and parameters of production. The problem of interchangeability as a whole is solved on the basis of a unified state system of nominal parameters and dimensions of articles, established according to standard series of preferable numbers. The author emphasizes the great importance of introducing standards for threads used in industry. Closely connected

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S/123/60/000/008/001/017 A004/A001

Accuracy, Interchangeability and Technical Measurements in Mechanical Engineering According to Soviet and International Standardization

with this are standards for gages producing the conditions which are necessary to ensure the accuracy of threaded joints. The author points out the standardization task in the field of improving the quality of machine manufacture, in the first place that of increasing their durability. In this context, special attention is paid, when approving new standards and reviewing the existing ones, to increasing the manufacturing accuracy of components and their assembly. In proportion to the rise of the technical level and the increase in demands towards the accuracy of machines, the standard specifications for the accuracy and rigidity of metal cutting machine tools have to be established. In connection with the widespread introduction of metal working by pressure and the development of forging and stamping manufacture, standardized specifications for the accuracy of forging and stamping manufacture, standardized specifications for the accuracy of forging and stamping manufacture, standardized specifications for the accuracy of forging and stamping machines were developed and put in operation recently. The importance of a systematic increase in manufacturing accuracy and durability of cutting tools is emphasized. The increased speed and capacity of machines cause the demands towards geared transmissions to be raised. The author elucidated the participation of the

Card 2/3

\$/123/60/000/008/001/017 A004/A001

Accuracy, Interchangeability and Technical Measurements in Mechanical Engineering According to Soviet and International Standardization

Komitet standartov, mer i izmeritel nykh priborov pri Sovete Ministrov SSSR (Committee of Standards. Measures and Measuring Devices at the Council of Ministers of the USSR) in the work of the International Standard Organization ISO.

Translator's note: This is the full translation of the original Russian abstract.

P.Ye.A.

Card 3/3

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Present State (Cont.)	
PART III. TECHNICAL-ECONOMIC PRODUCTION PROBLEMS IN THE MACHINE AND INSTRUMENT INDUSTRIES	N.,
 Ch. XX. Problems of Standardization and Typification in the Machine and Instrument Industries as Related to Problems of Introducing Advanced Manufacturing Processes [A.Ye. Vyatkin, Engineer] 1. Basic problems and practice of introducing standardization, typification and unification 2. Interchangeability and technical measurements in the machine and instrument industries; problems involved 3. Problems of the economic effectiveness of introducing new machinery as related to practical standardization and typification 	518 518 528 531
Ch. XXI. Unused Capacity in Machine Building; Industrial Standards [E.A. Satel', Doctor of Technical Sciences, Professor]	535
Ch. XXII. Methods for Determining the Economic Effectiveness of Introducing New Machinery [I.G. Fofanov, Engineer]	546
Ch. XXIII. Prospective Plans for the Introduction of Advanced Processing in the Metalworking and Machine-Building Establishments [V.V. Matveyenko, Engineer]	553 c/sfm 15/61

S/028/60/000/008/001/010 B013/B054

AUTHOR:

Vyatkin, A. Ye., President

TITLE:

For Further Technical Progress

PERIODICAL: Standartizatsiya, 1960, No. 8, pp. 3 - 7

TEXT: In June 1959 the Plenum of the Tsk KPSS (Central Committee of the Communist Party of the Soviet Union) charged the Komitet standartov, mer i izmeritel nykh priborov (Bureau of Standards, Measures, and Measuring Instruments) and the Gosstroy USSR (State Committee on Construction of the Council of Ministers of the USSR) with the working out of measures for reorganizing the manufacture of mass-produced consumer goods according to State standards during the next 2-3 years. Moreover, the standardization and typification of products of the same type is to be improved thoroughly. Qualified workers from scientific research institutes, design and planning organizations, as well as big factories, are engaged in the standardization of the manufacture of mass-produced consumer goods. The Bureau of Standards, Measures, and Measuring Instruments was instructed by the July 1960 Plenum of the Tsk KPSS to

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For Further Technical Progress

S/028/60/000/008/001/010 B013/B054

work out, together with the Councils of Ministers of the Union Republics, proposals for improving standardization in national economy by November 1, 1960, and submit them to the Council of Ministers. Special attention should be paid to an increase in quality Although more than 300 State standards have been introduced since June 1959, some shortcomings in this field have been coserved. Recently, the exact observance of regulations and the timely introduction of standards has been controlled more strictly by the Bureau of Standards, Measures, and Measuring Instruments. The progressive specialization and cooperation of factories is one of the conditions for the fulfillment of the Seven-year Plan. The development of a specialized production of standardized tools and technical equipment is of outstanding importance. For this purpose, the Bureau of Standards, Measures, and Measuring Instruments and the Vsesoyuznyy nauchnoissledovatel'skiy institut po normalizatsii v mashinostroyenii (VNIINMASh) (All-Union Scientific Research Institute of Standardization in Machine Construction) worked out measures for organizing the production on a high technical level. It is planned to increase, in the next 7 years, the production capacity of specialized factories by more than three times the amount of 1958. In this connection, new factories for a centralized

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For Further Technical Progress

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production of technical equipment are to be established. In 1960-1961, the Bureau of Standards, Measures, and Measuring Instruments, together with the ministries and sovnarkhoz, will have to work out and approve All-Union standards for the principal types of tools and technical equipment. Further, measures must be worked out for the transition to a specialized production of single parts, composite parts, and mass-produced consumer goods. In this connection, the initiative of the Nauchno-issledovatel'skiy institut aviatsionnoy tekhnologii (Scientific Research Institute of Aviation Technology) should be pointed out. In 1960, the Bureau of Standards, Measures, and Measuring Instruments suggested to planning authorities and sovnarkhoz the introduction of about 400 new types. Besides, it was suggested to eliminate about 160 types of outdated machines from production. The Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Construction), the Gosplan USSR, and the Bureau of Standards, Measures, and Measuring Instruments were instructed by the Plenum of the TsK KPSS to work out measures for the introduction of standard number series in all fields of machine construction and for the standardization and typification of machine construction products, and to submit corresponding proposals to

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